

WHAT IS CLAIMED IS:

1. A process for fabricating passive matrix plastic displays, comprising:

(a) forming a plurality of second conducting lines over a second plastic substrate with a roll-to-roll coating machine, wherein said second conducting lines are disposed perpendicular to the transportation direction of said second plastic substrate;

(b) continuously coating a polymeric liquid crystal over said second plastic substrate to form a plurality of block-shaped active areas;

(c) hollowing or drilling the portions of said plastic substrate outside said block-shaped active areas formed on said second plastic substrate with a cutting machine;

(d) providing a first plastic substrate having a plurality of first conducting lines disposed parallel to one another to have said first and said second plastic substrates mounted on a roll-to-roll coating machine simultaneously, wherein said first conducting lines of said first plastic substrate are disposed parallel to the transportation direction of said first plastic substrate; and

(e) sealing said first and said second plastic substrates with an adhesive to form a plurality of passive matrix plastic display panels.

2. The method of claim 1, further comprising a post step (a1) curing or hardening said second conducting lines by means of an ultraviolet-radiation or a heat-drying machine after a plurality of second conducting lines are formed over a second plastic substrate with a

roll-to-roll coating machine in step (a).

3. The method of claim 1, wherein said first or said second conducting lines are made of a transparent polymer.

4. The method of claim 1, wherein the width of said first plastic substrate is shorter than the width of said second plastic substrate to expose said second conducting lines for being externally connected to a driving circuit after said step (e) is completed.

5. The method of claim 1, wherein said second conducting lines in said step (a) are formed on the surface of said second plastic substrate by means of a dispenser or a die for screen printing, stamping or coating.

6. The method of claim 1, wherein said first conducting lines or said second conducting lines are made of a silver adhesive, a copper adhesive or an aluminum adhesive.

7. The method of claim 1, wherein said adhesive is coated over said first or said second plastic substrate in said step (e).

8. The method of claim 1, wherein said polymeric liquid crystal or said adhesive is formed by the slot-die coating in said steps (b) and (e).

9. The method of claim 1, further comprising a post step (e1) curing or hardening said adhesive by means of an ultraviolet- radiation or a heat-drying machine after sealing said first and said second plastic substrates after said first plastic substrates and said second plastic substrates with an adhesive in step (e).

10. The method of claim 1, further comprising a post step (f) separating said plurality of display panels by means of a cutting machine

after said adhesive is dried after said first plastic substrates and said second plastic substrates with an adhesive in step (e).

11. The method of claim 1, wherein each of said hollow portions formed by means of said cutting machine is of rectangular shape having a width in a direction perpendicular to the transportation direction of said second plastic substrate, said width of said rectangular hollow portions is shorter than the width of said second plastic substrate and is longer than the width of every said block-shaped active area perpendicular to the transportation direction of said second plastic substrate.

12. The method of claim 1, wherein an area being coated with said adhesive in said step (e) is larger than that of said block-shaped active area.

13. The method of claim 10, further comprising a post step (g) to provide a driving circuit for connecting said first conducting lines to said second conducting lines after said plurality of display panels are separated in step (f).

14. The method of claim 1, wherein said first plastic substrate is mounted with said second plastic substrate and is aligned with said second plastic substrate on one side thereof so that said first conducting lines are perpendicular to said second conducting lines.

15. The method of claim 1, wherein said steps (a), (b) and (c) are processed by means of one roll-to-roll coating machine.

16. The method of claim 1, wherein said steps (a), (b), (c), (d) and (e) are processed by means of one roll-to-roll coating machine.